

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101694,243
Source: IFW
Date Processed by STIC: 11-17-84

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IFWO

RAW SEQUENCE LISTING

DATE: 11/17/2004

PATENT APPLICATION: US/10/694,243

TIME: 16:12:57

Input Set : A:\17625058.app

Output Set: N:\CRF4\11172004\J694243.raw

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3 <110> APPLICANT: BAO, GANG
4     NIE, SHUMING
5     NITIN, NITIN
6     LACONTE, LESLIE
8 <120> TITLE OF INVENTION: MULTIFUNCTIONAL MAGNETIC NANOPARTICLE PROBES FOR
9     INTRACELLULAR MOLECULAR IMAGING AND MONITORING
11 <130> FILE REFERENCE: 17625-0058
13 <140> CURRENT APPLICATION NUMBER: 10/694,243
14 <141> CURRENT FILING DATE: 2003-10-27
16 <150> PRIOR APPLICATION NUMBER: 60/421,361
17 <151> PRIOR FILING DATE: 2002-10-25
19 <160> NUMBER OF SEQ ID NOS: 32
21 <170> SOFTWARE: PatentIn Ver. 3.2
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 11
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
30     peptide
32 <400> SEQUENCE: 1
33 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
34   1             5             10
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38 <211> LENGTH: 34
39 <212> TYPE: PRT
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
44     peptide
46 <400> SEQUENCE: 2
47 Asp Ala Ala Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser Arg Pro Thr
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50 Glu Arg Pro Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro Arg Arg Pro
51   20             25             30
53 Val Glu
57 <210> SEQ ID NO: 3
58 <211> LENGTH: 16
59 <212> TYPE: PRT
60 <213> ORGANISM: Artificial Sequence
62 <220> FEATURE:
63 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
64     peptide

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66 <400> SEQUENCE: 3
67 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
68   1           5           10           15
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72 <211> LENGTH: 16
73 <212> TYPE: PRT
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
78   peptide
80 <400> SEQUENCE: 4
81 Arg Arg Trp Arg Arg Trp Trp Arg Arg Trp Trp Arg Arg Trp Arg Arg
82   1           5           10           15
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 12
87 <212> TYPE: PRT
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
92   peptide
94 <400> SEQUENCE: 5
95 Thr Pro Pro Lys Lys Arg Lys Val Glu Asp Pro
96   1           5           10
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 20
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
106   peptide
108 <400> SEQUENCE: 6
109 Cys Trp Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
110   1           5           10           15
112 Lys Lys Lys Lys
113           20
116 <210> SEQ ID NO: 7
117 <211> LENGTH: 40
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
123   peptide
125 <400> SEQUENCE: 7
126 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
127   1           5           10           15
129 Lys Lys Trp Cys Cys Trp Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
130           20           25           30
132 Lys Lys Lys Lys Lys Lys Lys Lys
133           35           40

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136 <210> SEQ ID NO: 8
137 <211> LENGTH: 27
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
143     peptide
145 <400> SEQUENCE: 8
146 Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Lys Ile Asn Leu
147   1           5           10           15
149 Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
150       20           25
153 <210> SEQ ID NO: 9
154 <211> LENGTH: 13
155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
160     peptide
162 <400> SEQUENCE: 9
163 Gly Leu Phe Glu Ala Leu Glu Glu Leu Trp Glu Ala Lys
164   1           5           10
167 <210> SEQ ID NO: 10
168 <211> LENGTH: 46
169 <212> TYPE: PRT
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
174     peptide
176 <400> SEQUENCE: 10
177 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
178   1           5           10           15
180 Gly Gly Cys Arg Gly Asp Met Phe Gly Cys Ala Lys Lys Lys Lys Lys
181       20           25           30
183 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Arg Gly Asp
184   35           40           45
187 <210> SEQ ID NO: 11
188 <211> LENGTH: 25
189 <212> TYPE: PRT
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
194     peptide
196 <400> SEQUENCE: 11
197 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
198   1           5           10           15
200 Gly Gly Cys Met Phe Gly Cys Gly Gly
201       20           25
204 <210> SEQ ID NO: 12

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RAW SEQUENCE LISTING

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DATE: 11/17/2004

TIME: 16:12:57

Input Set : A:\17625058.app

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205 <211> LENGTH: 31
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
211     peptide
213 <400> SEQUENCE: 12
214 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
215   1             5             10             15
217 Ile Cys Arg Arg Ala Arg Gly Asp Asn Pro Asp Asp Arg Cys Thr
218           20             25             30
221 <210> SEQ ID NO: 13
222 <211> LENGTH: 20
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
228     peptide
230 <220> FEATURE:
231 <221> NAME/KEY: MOD_RES
232 <222> LOCATION: (17)
233 <223> OTHER INFORMATION: Beta-Ala
235 <220> FEATURE:
236 <221> NAME/KEY: MOD_RES
237 <222> LOCATION: (19)
238 <223> OTHER INFORMATION: Lys coupled to biotin (D-biotin)
240 <220> FEATURE:
241 <221> NAME/KEY: MOD_RES
242 <222> LOCATION: (20)
243 <223> OTHER INFORMATION: Beta-Ala
245 <400> SEQUENCE: 13
246 Lys Lys Trp Lys Met Arg Arg Asn Gln Phe Trp Val Lys Val Gln Arg
247   1             5             10             15
W--> 249 Ala Lys Xaa Ala
250           20
253 <210> SEQ ID NO: 14
254 <211> LENGTH: 30
255 <212> TYPE: PRT
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:
259 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
260     peptide
262 <400> SEQUENCE: 14
263 Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
264   1             5             10             15
266 Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
267           20             25             30
270 <210> SEQ ID NO: 15
271 <211> LENGTH: 32

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272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
277     peptide
279 <400> SEQUENCE: 15
280 Ile Gly Arg Ile Asp Pro Ala Asn Gly Lys Thr Lys Tyr Ala Pro Lys
281   1           5           10           15
283 Phe Gln Asp Lys Ala Thr Arg Ser Asn Tyr Tyr Gly Asn Ser Pro Ser
284   20           25           30
290 <210> SEQ ID NO: 16
291 <211> LENGTH: 12
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
297     peptide
299 <400> SEQUENCE: 16
300 Pro Leu Ala Glu Ile Asp Gly Ile Glu Leu Thr Tyr
301   1           5           10
304 <210> SEQ ID NO: 17
305 <211> LENGTH: 30
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
311     peptide
313 <400> SEQUENCE: 17
314 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
315   1           5           10           15
317 Gly Gly Pro Leu Ala Glu Ile Asp Gly Ile Glu Leu Gly Ala
318   20           25           30
321 <210> SEQ ID NO: 18
322 <211> LENGTH: 30
323 <212> TYPE: PRT
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
328     peptide
330 <400> SEQUENCE: 18
331 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
332   1           5           10           15
334 Gly Gly Pro Leu Ala Glu Ile Asp Gly Ile Glu Leu Cys Ala
335   20           25           30
338 <210> SEQ ID NO: 19
339 <211> LENGTH: 28
340 <212> TYPE: PRT
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/694,243

DATE: 11/17/2004
TIME: 16:12:58

Input Set : A:\17625058.app
Output Set: N:\CRF4\11172004\J694243.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 19 ✓

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/694,243

DATE: 11/17/2004

TIME: 16:12:58

Input Set : A:\17625058.app

Output Set: N:\CRF4\11172004\J694243.raw

L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:16